## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**:

- 194. (New) A recombinant cell that expresses a receptor comprised of at least one T1R1 polypeptide and at least one T1R3 polypeptide that specifically binds to and/or is activated by umami taste stimuli.
- 195. (New) The cell of claim 194, which is selected from the group consisting bacterial, yeast, mammalian, amphibian and insect cells.
  - 196. (New) The cell of cell 194, wherein said cell is a prokaryotic cell.
  - 197. (New) The cell of claim 194, wherein said cell is a eukaryotic cell.
- 198. (New) The cell of claim 197, wherein said eukaryotic cell is a CHO, HEK-293, COS or Xenopus oocyte.
- 199. (New) The cell of claim 194, wherein said T1R1 and T1R3 are derived from different species.
- 200. (New) The method of claim 199, wherein said T1R1 and T1R3 are of the same species.
- 201. (New) The method of claim 194, wherein said T1R1 is selected from mouse T1R1, rat T1R1, human T1R1 and said T1R3 is selected from mouse T1R3, rat T1R3 and human T1R3.
- 202. (New) The cell of claim 194, wherein T1R1 and T1R3 nucleic acid sequences are stably integrated into said cell.

- 203. (New) The cell of claim 194, wherein T1R1 and T1R3 nucleic acid sequences are comprised on an extrachromosomal element.
- 204. (New) The cell of claim 194, which comprises T1R1 and T1R3 nucleic acid sequences that are operably linked to a constitutional promoter.
- 205. (New) The cell of claim 194, which comprises T1R1 and T1R3 nucleic acid sequences that are operably linked to an inducible promoter.
  - 206. (New) The cell of claim 194, which further expresses a G protein.
- 207. (New) The cell of claim 206, wherein said G protein is  $G_{\alpha 15}$ ,  $G_{\alpha 16}$  or gustducin.
- 208. (New) The cell of claim 194, wherein said T1R3 polypeptide has the amino acid sequence contained in SEQ. ID. NO: 5.
- 209. (New) The cell of claim 194, wherein said T1R1 polypeptide has an amino acid sequence that possesses at least 90% sequence identity to the amino acid sequence contained in SEQ. ID. NO: 5 or a fragment thereof that when expressed in association with a T1R3 polypeptide results in a functional umami taste receptor.
- 210. (New) The cell of claim 209, wherein said T1R1 polypeptide has at least 95% sequence identity to the polypeptide contained in SEQ. ID. NO: 5.
- 211. (New) The cell of claim 209, wherein said T1R1 polypeptide has at least 96% sequence identity to the polypeptide contained in SEQ. ID. NO: 5.
- 212. (New) The cell of claim 209, wherein said T1R1 polypeptide has at least 97% sequence identity to the polypeptide contained in SEQ. ID. NO: 5.

- 213. (New) The cell of claim 209, wherein said T1R1 polypeptide has at least 98% sequence identity to the polypeptide contained in SEQ. ID. NO: 5.
- 214. (New) The cell of claim 209, wherein said T1R1 polypeptide has at least 99% sequence identify to the polypeptide contained in SEQ. ID. NO: 5.
- 215. (New) The cell of claim 209, wherein said T1R1 polypeptide is encoded by the nucleic acid sequence contained in SEQ. ID. NO: 8 or a fragment thereof that when expressed in association with a T1R3 polypeptide results in a functional umami taste receptor.
- 216. (New) The cell of claim 209, wherein said T1R1 polypeptide is encoded by a nucleic acid sequence that specifically hybridizes to the sequence contained in SEQ. ID. NO: 8 under stringent hybridization conditions.
- 217. (New) The cell of claim 194, wherein said T1R3 polypeptide has the amino acid sequence contained in SEQ. ID. NO: 7.
- 218. (New) The cell of claim 194, wherein said T1R3 polypeptide has the amino acid sequence contained in SEQ. ID. NO: 7 or a fragment therewith that when expressed in association with a T1R1 polypeptide results in a functional umami taste receptor.
- 219. (New) The cell of claim 218, wherein said T1R3 polypeptide exhibits at least 95% sequence identity to the polypeptide compound in SEQ. ID. NO: 7.
- 220. (New) The cell of claim 218, wherein said T1R3 polypeptide exhibits at least 96% sequence identity to the polypeptide contained in SEQ. ID. NO: 7.

- 221. (New) The cell of claim 218, wherein said T1R3 polypeptide exhibits at least 97% sequence identity to the polypeptide contained in SEQ. ID. NO: 7.
- 222. (New) The cell of claim 218, wherein said T1R3 polypeptide exhibits at least 98% sequence identity to the polypeptide contained in SEQ. ID. NO: 7.
- 223. (New) The cell of claim 218, wherein said T1R3 polypeptide exhibits at least 99% sequence identity to the polypeptide contained in SEQ. ID. NO: 7.
- 224. (New) The cell of claim 218, wherein said T1R3 polypeptide is encoded by the nucleic acid sequence contained in SEQ. ID. NO: 9.
- 225. (New) The cell of claim 218, wherein said T1R3 polypeptide is encoded by a nucleic acid sequence that hybridizes under stringent hybridization conditions to the nucleic acid sequence contained in SEQ. ID. NO: 9 or a fragment thereof that when expressed in association with a T1R1 polypeptide yields a functional umamitaste receptor.
- 226. (New) The cell of claim 194, which expresses a T1R1 polypeptide having SEQ. ID. NO: 5 and a T1R3 polypeptide having SEQ. ID. NO: 7.
  - 227. (New) The cell of claim 226, which is a eukaryotic cell.
- 228. (New) The cell of claim 227, which is a mammalian, yeast, amphibian or insect cell.
- 229. (New) The cell of claim 227, which is a CHO, COS, HEK-293 or Xenopus oocyte.
  - 230. (New) The cell of claim 229, which is an HEK-293 cell.

- 231. (New) The cell of claim 229, which stably expresses said T1R1 and T1R3 polypeptides.
- 232. (New) The cell of claim 229, which transiently expresses said T1R1 and T1R3 polypeptides.
  - 233. (New) The cell of claim 226, which further expresses a G protein.
- 234. (New) The cell of claim 233, wherein said G protein is  $G_{\alpha 15}$  and  $G_{\alpha 15}$  or gustducin.

## IN THE TITLE:

Please delete the current title and substitute the following

## TITLE

- CELL LINES THAT STABLY OR TRANSIENTLY EXPRESS A FUNCTIONAL UMAMI (T1R1/T1R3) TASTE RECEPTOR -